GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA

UNSTARRED QUESTION NO:1211
ANSWERED ON:27.11.2000
DEVELOPMENT OF VARIETIES OF PULSES
MANSINH PATEL

Will the Minister of AGRICULTURE be pleased to state:

(a) whether the scientific organisation/institutions have not performed significantly in development of varieties of pulses;

(b) if so, the reasons therefor; and

(c) the details of the developmental works undertaken in this field during the last three years?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE
(DR. DEBENDRA PRADHAN)
(a) No, Sir.
(b) Question does not arise.
(c) Research work on the development of improved varieties in different pulse crops has been in progress in the following major areas:

(i) Incorporation of resistance against biotic and abiotic stresses.

(ii) Reduction in maturity duration for multiple cropping systems.

(iii) Development of hybrids in pigeonpea.

(iv) Varieties for non-traditional areas and seasons.
As a result of these research efforts, a number of improved varieties have been developed and released for different areas. Details of the improved varieties released during the last 3 years are given in Annexure.
Annexure Annexure

List of improved varieties of pulse crops released during the last three years

Name of variety/hybrid	Year of release	Yield q/ha	Area of adaptation	Remarks
Chickpea				
DCP 92-3	1997	18-20	NWPZ	Resistant to wilt
KDG 1168 (Alok)	1997	20-25	NWPZ	Resistant to wilt and root rot
Vishal	1997	30-35	CZ	Resistant to wilt
PDG 3	1997	16-18	Punjab	Tolerant to pod borer
CSG 8962 (Karnal Channa-1)	1997	18-20	NWPZ	Resistant to wilt. Suitable for saline condition.
GCP 101 (Gujarat Gram-1)	1999	18-22	CZ	Tolerant to wilt
Pusa 1003 (Kabuli)	1999	18-20	NEPZ	Tolerant to wilt, bold seeded
BGD-72 (Pusa Pragati)	1999	20	CZ	Bold seeded, resistant to wilt and root rot, drought tolerant
BG 1053 (Pusa	1999	20	NWPZ	Bold seeded and moderately resistant to root diseases.
JG-11	1999	18-22	SZ	Tolerant to Fusarium wilt
GCP 105	2000	18	NEPZ	Moderately resistant to wilt rot
Pigeonpea				

COPH-2 (Hybrid)	1997	10	T N	Early maturing
Amar	1997	16-20	U P	Resistant to sterility mosaic, tolerant to wilt
AKPH 4101 (Hybrid)	1997	20-22	CZ	Indeterminate to plant
Narendra Arhar-1	1997	20-22	U P	Resistant to SMD, tolerant to wilt
AKPH 2022 (Hybrid)	1998	18-20	Maharas	-
Paras (H82-1)	1998	15-20	Haryana	-
MA-3(Malviya Vikalp)	1999	20-22	CZ	Moderately tolerant to wilt and pod fly
Durga (ICPL 84031)	1999	18-20	A P	-

Mungbean

Pant Mung 4 (UPM 92-1)	1997	7	NEPZ	Resistant to yellow mosaic virus
HUM-1	1999	9(CZ) 8(sz)	CZ and SZ	Resistant to yellow mosaic virus
Co 6	1999	10	Tamil Nadu	Resistant to yellow mosaic virus
PBM 2	2000	6	NEPZ	Resistant to yellow mosaic virus
Pusa 9531	2000	9	CZ	Resistant to yellow mosaic virus and tolerant to jassids and whitefly
Pusa Bold-1 (Vishal)	2000	11	NWPZ	Resistant to yellow mosaic virus and tolerant to jassids and whitefly

Urdbean

Vamban-2	1997	8	T N	Resistant to yellow mosaic virus and tolerant to drought
Shekhar-1 (KU 301)	1997	13	SZ	Resistant to yellow mosaic virus and suitable for rabi season
TU 94-2	1999	15	SZ	Resistant to yellow mosaic virus, moderately resistant to powdery mildew and for rabi season
IPU 94-1(Uttara)	1999	12	NWPZ, NEPZ	Resistant to yellow mosaic virus
KU 92-1 (Azad Urd-1)	1999	10	NEPZ	Resistant to yellow mosaic virus, suitable for spring season
RBU 38 (Barkha)	1999	12.5	CZ and NEPZ	Resistant to Cercospora leaf spot, bold seeded

WBG 26	1999	9.5	SZ	Resistant to powdery mildew and yellow mosaic virus
Lentil				
Narendra)	1997	14	U P	Resistant to rust, tolerant Masoor-1 (NDL 92-1) to wilt and bold seeded
DPL 62 (Sheri)	1997	17	NWPZ	Resistant to rust, tolerant to wilt and bold seeded
JL 3	1999	14.5	CZ	Resistant to wilt
IPL 81 (Noori)	2000	12.5	CZ	Tolerant to rust and bold seeded
Fieldpea				
DMR 7 (Alankar)	1996	23.5	NWPZ	Resistant to powdery mildew
Uttra (HFP 8909)	1996	22	NWPZ	Resistant to powdery mildew
KFP 144-1	1997	18	U P	Resistant to powdery mildew
HUDP 15 (Malviya Matar 15)	1999	23-24	NEPZ	Resistant to powdery mildew
DDR 23	2000	15.5	NEPZ	Resistant to powdery mildew
Lathyrus				
Bio L 212 (Ratan)	1997	15	NEPZ	Low neurotoxin, suitable for Utera and drought prone conditions
Prateek	1999	13	M P	Resistant to powdery mildew and tolerant to pod borer and low neurotoxin (0.07%)
Mothbean				
RMO-225	1999	5-5.5	Rajasthan, Gujarat and Maharashtra	Drought tolerant
FMM-96	1999	5-6	All moth growing areas	Suitable for light alluvial to heavy soils and rainfed conditions
CAZRI Moth-1	1999	5.5-6.5	All moth growing areas	Drought tolerant
Cowpea				
GC-3	1999	10-11	SZ	Early maturing, suitable for arid and semi arid areas
Pusa Sampda	1999	9	NWPZ	Suitable for rainfed conditions

Horse gram

Palem-2	1996	8-9	AP	Early maturity, suitable for rainfed conditions	
AK-21	1999	8-8.5	NWPZ	Tolerant to anthracnose, suitable for rainfed areas	

Guar

RGC-1003	1999	11	All guar growing areas	Suitable for rainfed conditions and well drained soils.	
RGC-1002	1999	10	All guar growing areas	Suitable for rainfed conditions	
RGC-986	1999	10	All guar growing areas	Suitable for rainfed conditions	

SZ (South Zone) : Andhra Pradesh, Karnataka and Tamil Nadu

NEPZ (North Eastern Plain Zone) : Eastern Uttar Pradesh, Bihar, West Bengal and Orissa

CZ (Central Zone) : South West Uttar Pradesh, Madhya Pradesh, Maharashtra and Gujarat.

NWPZ (North Western Plain Zone) : Punjab, Haryana, Rajasthan, Delhi and Western Uttar Pradesh